KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-690/790/890

VHF/UHF FM Mobile Radios

FleetSync® by KENWOOD

GENERAL FEATURES

- 45W & 110W (136-156, 148-174 MHz)
- 40W (403-430, 450-490, 480-512 MHz)
- 110W-75W (450-480 MHz)
- 110W (29.7-37.0, 35.0-43.0, 40.0-50.0 MHz)
- 160 Channels
- Dual Priority Scan
- Single / Multi Group Scan
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode[1]
- DTMF Encode/ Decode / Stun[2]
- Encryption / ANI Board Control[3]
- Emergency Call Features
- Companded Audio
- Intercom[4]
- Public Address
- Time Out Timer
- Busy Channel Lockout
- Ignition Sense[5]
- Timed Power Off
- DB-25 Accessory Connector[6]
- 7 Programmable AUX Inputs[6]
- 6 Programmable AUX Outputs[5]
- Windows® Programming & Tuning[7]
- Windows® Firmware Uploading[7]
- Panel Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-Spec Noise-Cancel Mic (included)
- MIL-Spec 12-Key DTMF Mic Option

FleetSync®

- PTT ID Digital ANI
- Emergency Status

MOUNTING CONFIGURATIONS

- Dash Mount
- Single Head Remote Mount
- Dual Head Remote Mount
- Dual Band Remote Mount
- Dual Head / Dual Band Remote Mount

FRONT PANELS / CONTROL HEADS

- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- Transmit LED
- Busy, Call Alert, Warn LED
- LCD Dimmer Control
- Power On/Off Switch
- Rotary Volume Knob
- Rotary Selector Knob
- Backlit Keys
- PF Key Label Inserts
- Microphone Jack
- MILSTD 810 512.X Driven Rain

KCH-10 FRONT PANEL

- 8-Character Alphanumeric Aliases
- 5 PF Keys
- UP/DOWN Keys
- Built-in Front Speaker

KCH-11 FRONT PANEL

- 14-Character Alphanumeric Aliases
- 13 PF Keys
- UP/DOWN Keys
- External Speaker Required

Downloaded from www.Manualslib.com manuals search engine

Options

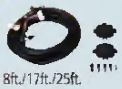
- **KMC-9B** Desktop Microphone

- **KMC-27** Microphone (MIL-SPEC noise-canceling)

- **KMC-28** Keypad Microphone (MIL-SPEC noise-canceling)

- **KCT-18** Ignition Sense Cable

- **KCT-22** Remote Control Cable



8ft./17ft./25ft.

- **KCT-23** DC Power Cable

- **KES-5** External Speaker (20W)

- **KCH-10** Basic Remote Control Head

- **KCH-11** Full-Featured Remote Control Head

- **KRK-5** Single Control Head Remote Kit
- **KRK-6DH** Dual Control Head Remote Kit
- **KRK-7DB** Dual Band Remote Kit
- **KRK-8DBH** Dual Band & Dual Control Head Remote Kit

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

Model	TK-690H	TK-790H	TK-790	TK-890H	TK-890
GENERAL					
Frequency Range					
Type 1	29.7-37.0 MHz	148-174 MHz	148-174 MHz	450-480 MHz	450-490 MHz
Type 2	35.0-43.0 MHz		136-156 MHz		480-512 MHz
Type 3	40.0-50.0 MHz				403-430 MHz
Number of Channels			160		
Channel Spacing					
Wide	20 kHz	25, 30 kHz	25, 30 kHz	25 kHz	25 kHz
Narrow		12.5, 15 kHz	12.5, 15 kHz	12.5 kHz	12.5 kHz
Channel Step	5 kHz	2.5 / 5 / 6.25 / 7.5 kHz	2.5 / 5 / 6.25 / 7.5 kHz	5 / 6.25 kHz	5 / 6.25 kHz
Operating Voltage	13.4 V DC ±15%	13.4 V DC ±15%	13.6 V DC ±15%	13.4 V DC ±15%	13.6 V DC ±15%
Current Drain					
Standby	< 0.6 A	< 0.6 A	< 0.6 A	< 0.6 A	< 0.6 A
Receive	< 2.2 A	< 2.2 A	< 2.2 A	< 2.2 A	< 2.2 A
Transmit	< 25 A	< 25 A	< 12 A	< 28 A	< 12 A
Duty Cycle			Transmit: 20%		
Operating Temperature Range			-22°f ~ +140°f (-30°c ~ +60°c)		
Frequency Stability (-22° F ~ +140° F)	±0.0005%	±0.0002%	±0.0002%	±0.0002%	±0.0002%
Antenna Impedance			50 Ω		
Dimensions (W x H x D) (w/ KCH-10)	7x2-1/4x14 1/8in. (178x60x360 mm)	7x2-1/4x14 1/8in. (178x60x360 mm)	7x2-1/4x9 in. (178x60x228 mm)	7x2-1/4x14 1/8in. (178x60x360 mm)	7x2-1/4x9 in. (178x60x228 mm)
Weight (net)	7.9 lbs. (3.6kg)	7.9 lbs. (3.6kg)	5 lbs. (2.3kg)	7.9 lbs. (3.6kg)	5 lbs. (2.3kg)
FCC ID					
Type 1	ALH22923110	ALH22933210	ALH22933110	ALH22943210	ALH22943110
Type 2	ALH22923120		ALH22933120		ALH22943120
Type 3	ALH22923130				ALH22943130
IC Certification					
Type 1	2B2195519A	2B2195450A	2B2195451A	2B2195446A	2B2195447A
Type 2	2B2195532A		2B2195510A		
Type 3	2B2195520A				
RECEIVER (Measurements made per EIA/TIA-204-D)					
Sensitivity					
(12dB SINAD)	0.25µV	0.25µV	0.25µV	0.25µV	0.25µV
(20dB Quieting)	0.35µV	0.35µV	0.35µV	0.35µV	0.35µV
Selectivity					
Wide	85 dB	85 dB	85 dB	85 dB	85 dB
Narrow		80 dB	80 dB	77 dB	77 dB
Intermodulation Distortion					
Wide	80 dB	80 dB	80 dB	80 dB	80 dB
Narrow		75 dB	75 dB	75 dB	75 dB
Spurious Response	90 dB	90 dB	90 dB	90 dB	90 dB
Audio Output	1.3W at 4Ω with less than 5% distortion (1.2W 4Ω with less than 3% distortion)				
TRANSMITTER (Measurements made per EIA/TIA-152-C)					
RF Output Power	110-45 W	110-45 W	45-5 W	100-40 W (75-40W in 470-480 MHz)	40-5 W
Type of Emission					
Wide	16K0E3E	16K0E3E	16K0F3E	16K0F3E	16K0F3E
Narrow		11K0F3E	11K0F3E	11K0F3E	11K0F3E
Spurious Response	80 dB	80 dB	80 dB	80 dB	80 dB
FM Hum & Noise					
Wide	55dB	53dB	53dB	50dB	50dB
Narrow		47dB	47dB	44dB	44dB
Microphone Impedance			600 Ω		
Audio Distortion			Less than 2% at 1000 Hz		

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcrypt International.
All other trademarks are property of their respective owners.

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I*, II	506.2/Procedure I*, II	506.3/Procedure I*, II	506.4/Procedure I*, II
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

** Control head only*

footnotes from Front:

1. *Two-Tone Decode (3 sets x 2 pairs each); Operator Selectable Tone (16 QT.DQT code pairs)*
2. *DTMF Encode: PTT ID, Emergency ANI, Manual Encode (KMC-28), Auto-Dial (9 numbers); DTMF Decode: Primary/secondary ID, Stun (a.k.a. dead beat disable)*
3. *Encryption/ANI Board: PCB lands for wire harness connectors.*
4. *Intercom: Dual Head & Dual Head/Dual Band remote mounts only*
5. *KCT-18 ignition sense option required.*
6. *DB-25 ACC: I/O's for dispatch consoles, desktop remotes, vehicle intercom/PA units, motorcycle PTT/headset kits, PC Laptop /Data Modems, GPS/AVL Modems.*
7. *KPG-44D Software required (Windows®98/NT/2000/Me/XP compatible)*

ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

ADS#14007 Printed in USA

KENWOOD

ADVANCED WIRELESS COMMUNICATIONS
20809 Kensington Blvd Lakeville,MN 55044 877-202-5060 www.advancedwireless.com
Downloaded from www.Manualslib.com manuals search engine